

2

RETAIN

Mess^{rs}. W. Gray & Co

No 977

Profile & Decks

S. S. "City of Leicester"

WEST HARTLEPOOL

Rpt. No. 16372.

RETAIN



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Foundation

W1080-0140

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PROFILE AND DECK PLANS.

SCALE $\frac{1}{8}$ " = ONE FOOT.

S.S. 345'-O.B.P. * 47'-4" * 34'-9" M^{1.0} To U.D^K
* 26'-0" M^{1.0} To 2nd D^K

SEPARATE PLAN OF TUBE PILLARS & DECK GIRDERS ETC.
WILL BE SUBMITTED.

DECK PLATING DOUBLED AT CORNERS OF
HATCHWAYS & LARGE DECK OPENINGS ON
UPPER & SECOND DECK.

WINDLASS, WINCHES, STEERING GEAR,
MASTS ETC SUPPORTED TO
SURVEYORS SATISFACTION.

NOTE:- SPACING OF RIVETS IN SEAMS & END LAPS To RULE,
NO INCREASE IN DIA^o OF RIVETS WHEN PLATES MADE
THICKER IN LIEU OF DOUBLINGS.

NOTE: NO HATCH FORE + AFTERS
FITTED. WOOD COVERS FITTED
FORE + AFT. 3" THICK.

SECOND DECK:
BUTTS OF STRINGER DOUBLE RIVETED OVERLAPS ALL FORE & AFT.
BUTTS OF DECK PLATING DOUBLE RIVETED OVERLAPS FOR
1/2 LENGTH TO SINGLE AT ENDS
ALL BUTTS OF SECOND DECK PLATING ARE OVERLAPPED
ALL SEAMS OF SECOND DECK PLATING ARE SINGLE RIVETED

SECOND D^K BEAM RIVETING.
STRINGER To BEAMS $\frac{3}{4}$ " RIVETS $5\frac{1}{2}$ " PITCH ALL FORE & AFT.
DECK PLATING To BEAMS $\frac{3}{4}$ " RIVETS $5\frac{1}{2}$ " PITCH ALL FORE & AFT.

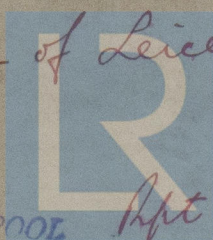
Messrs W. Gray & Co

No 977

Midship Section

S.S. City of Leicester

WEST HARTLEPOOL



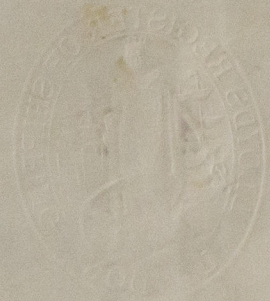
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9" COVERS.

HATCH COAMINGS, CROSS PLATES 5/8" AS PER PROFILE.

7" DOUBLING.

* 3" ~~38~~ B.A. KNEES $19\frac{1}{2}" \times 40"$ AT 30" SPACING. 16'-0" span
* 3" ~~31~~ " " " " 27" " ON ACCOUNT OF SPAN

HATCH COAMINGS, CROSS PLATES ETC AS PER PROFILE.
7" DOUBLING.

NOTE: 2ND D^K PLATING DOUBLED AT CORNERS
OF HATCHWAYS & LARGE D^K OPENINGS.

SECOND OF BEAMS (2 ROW SIDE) 37

BEAMS ~~24"~~ + HATCH END BEAMS 8' 8" - 24' 8" A.S.

KNEES 24" - 40' AT 30" SPACING

~~ROCKS~~ 1/2 BEAMS + HATCH END BEAMS 8' 8" - 24' 8" A.S. 4

KNEES 24" - 40' AT 27" SPACING

BEAM FLANGES TO SUIT DIA^S OF RIVETS.

GUSSETS EVERY FRAME.
5 THRO' GUSSET EACH WAY AT 30" SPACING.

12- 7/8" RIVETS
12- 7/8" RIVETS FORM
OF 1/4 L FROM STEM, CLEAR
OF PANTING FRAMES.

6" x 4" x .50" TEE BAR
9" x .44" BULB PLATE

SECTION IN WAY OF BOILERS.
 { DOUBLE ANG OR DOUBLE RIN? SINGLE ANG
 IN WAY OF ENGINES & THRUST BLOCK SEATING

[illegible]

FLOORS FITTED ON ALTERNATE FRAMES EXCEPT WHERE REQUIRED BY RULE
PARTIAL FLOORS UNDER THRUST. SEC 10, PARA 4.

BOTTOM STRENGTHENED FORWARD
AS PER RULES.

SECTION IN WAY OF BRACKET FLOORS.

CRUISER STERN

$$\begin{array}{rcl}
 & (27.33 + 34.75) & = 283.14 \cdot 6 \\
 345.0 \times 61.55 & & = 22059.95 \\
 69.5 \times 8.0 \times 50. & & = 278.00 \\
 24.5 \times 8.0 \times 50. & & = 98.00 \\
 \hline
 \text{EQUIPMENT NO} & = & 28434.95
 \end{array}$$

LLOYDS.

TONNAGE OPENING AFT.

W. GRAY & CO. LIMITED
22/4/25.
J.H.S.
WEST HARTLEPOOL.

MAIN BOILERS

CENTRAL MARINE
ENGINE WORKS

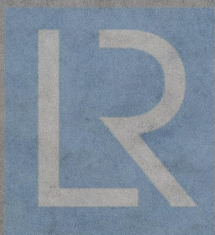
WYM GRAY & CO LD.

S.S. NO. 947.

NO 3677
Lloyds Test
380 lbs
W.P. 220 lbs
11.11.25 TRDS

S.S. City of Leicester

WEST HARTLEPOOL *Rpt 16372.*



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7/5/25

ENCLOSURE
N^o 454
"JUSTSO"



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BOILERS N^{OS} 977

WORKING PRESSURE 220 LBS PER D²

TEST " 380 " " "

2 OFF LLOYDS SURVEY

SCALE 1" = 1 FOOT

TO BE FITTED WITH HOWDEN'S SYSTEM OF FORCED DRAUGHT.

TENSILE LIMITS

SHELLS, BUTTS & GIRDERS	28-32 TONS	SIEMENS MARTIN STEEL
OTHER PLATES	26-30 "	" " "
LONGITUDINAL STAYS	28-32 "	" " "
SCREWED STAYS	26-30 "	" " "
RIVET BARS	26-30 "	" " "
FORGED GIRDER STAYS	2 1/2 MIN	WROG IRON
TUBES		" " "

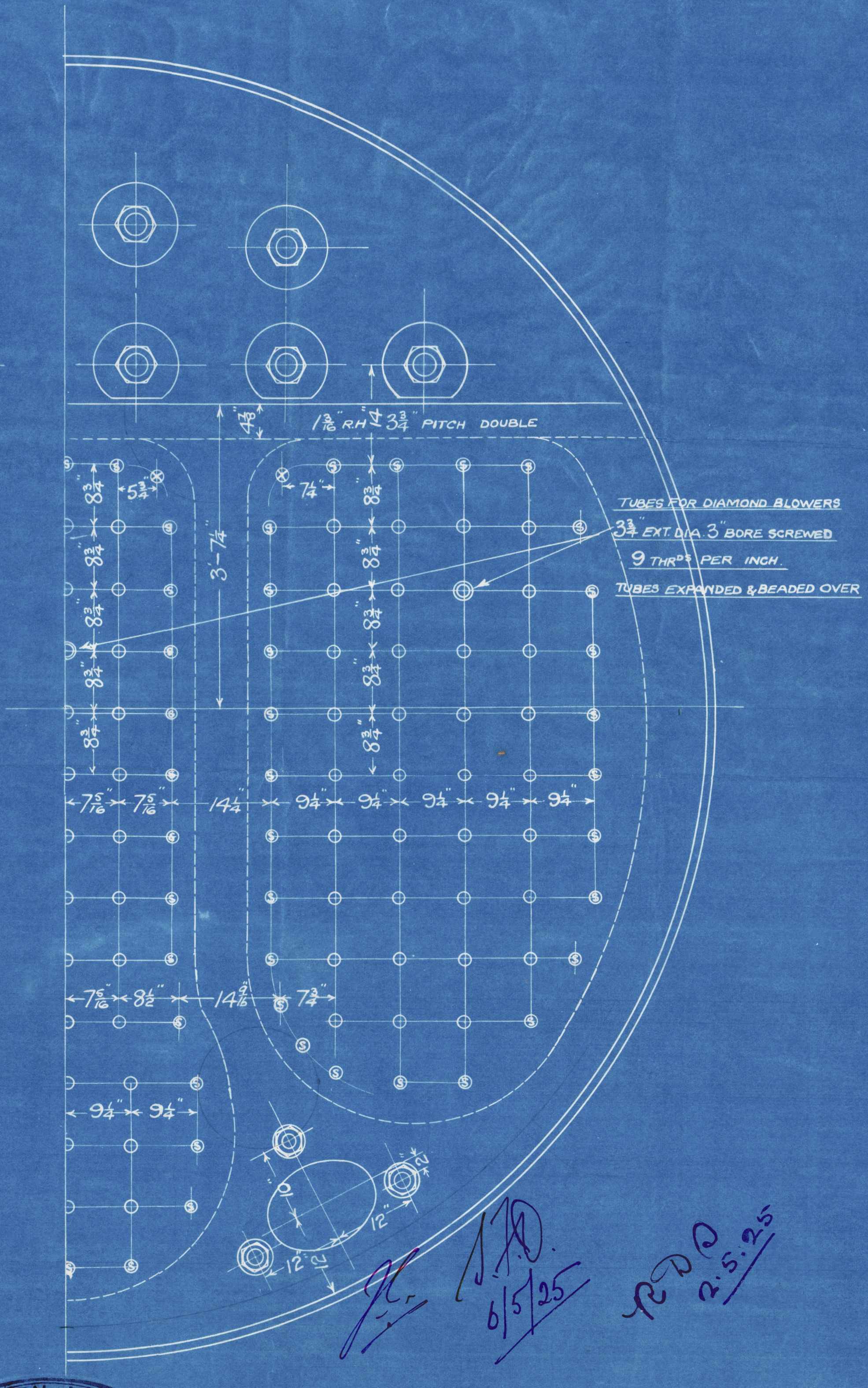
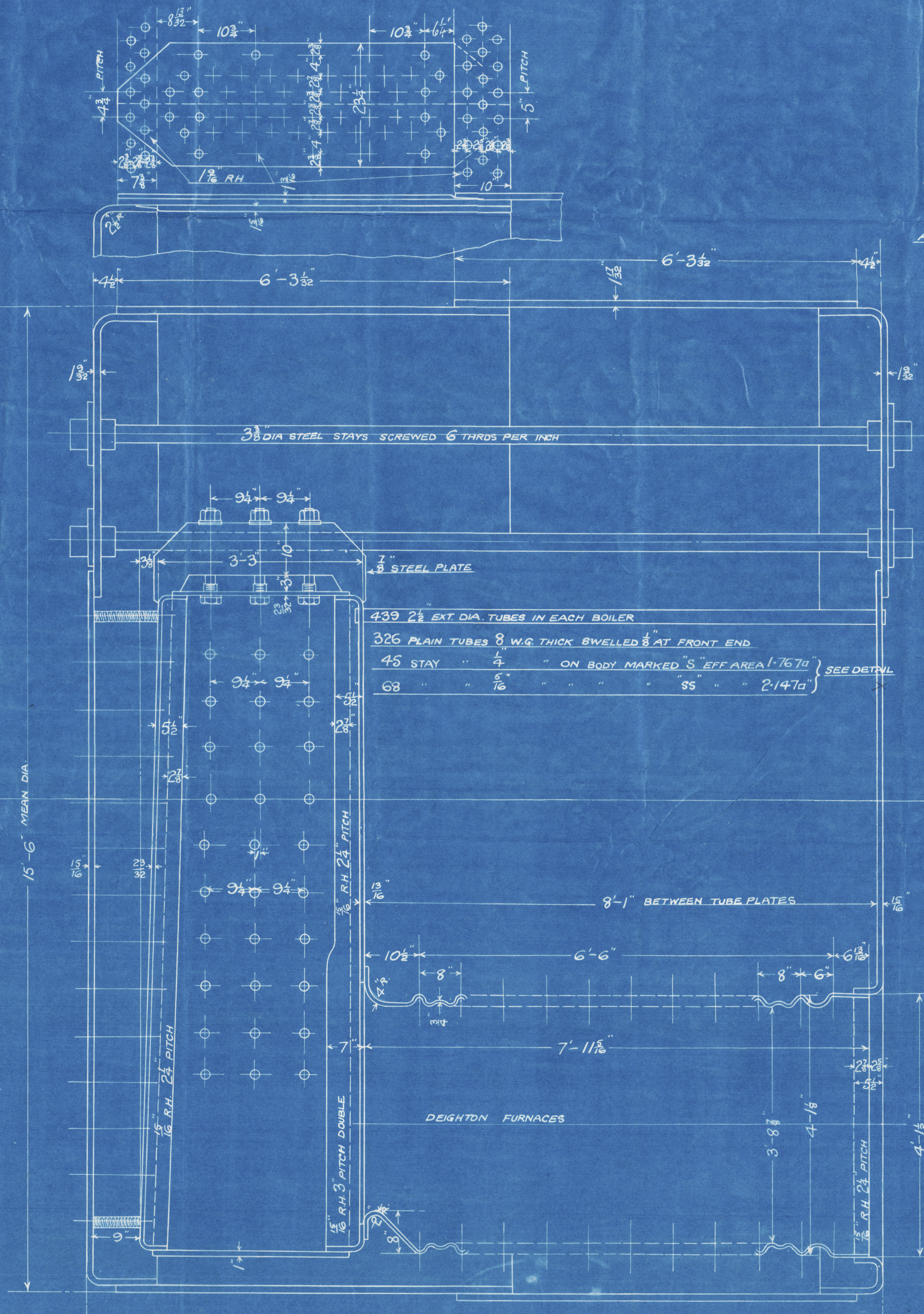
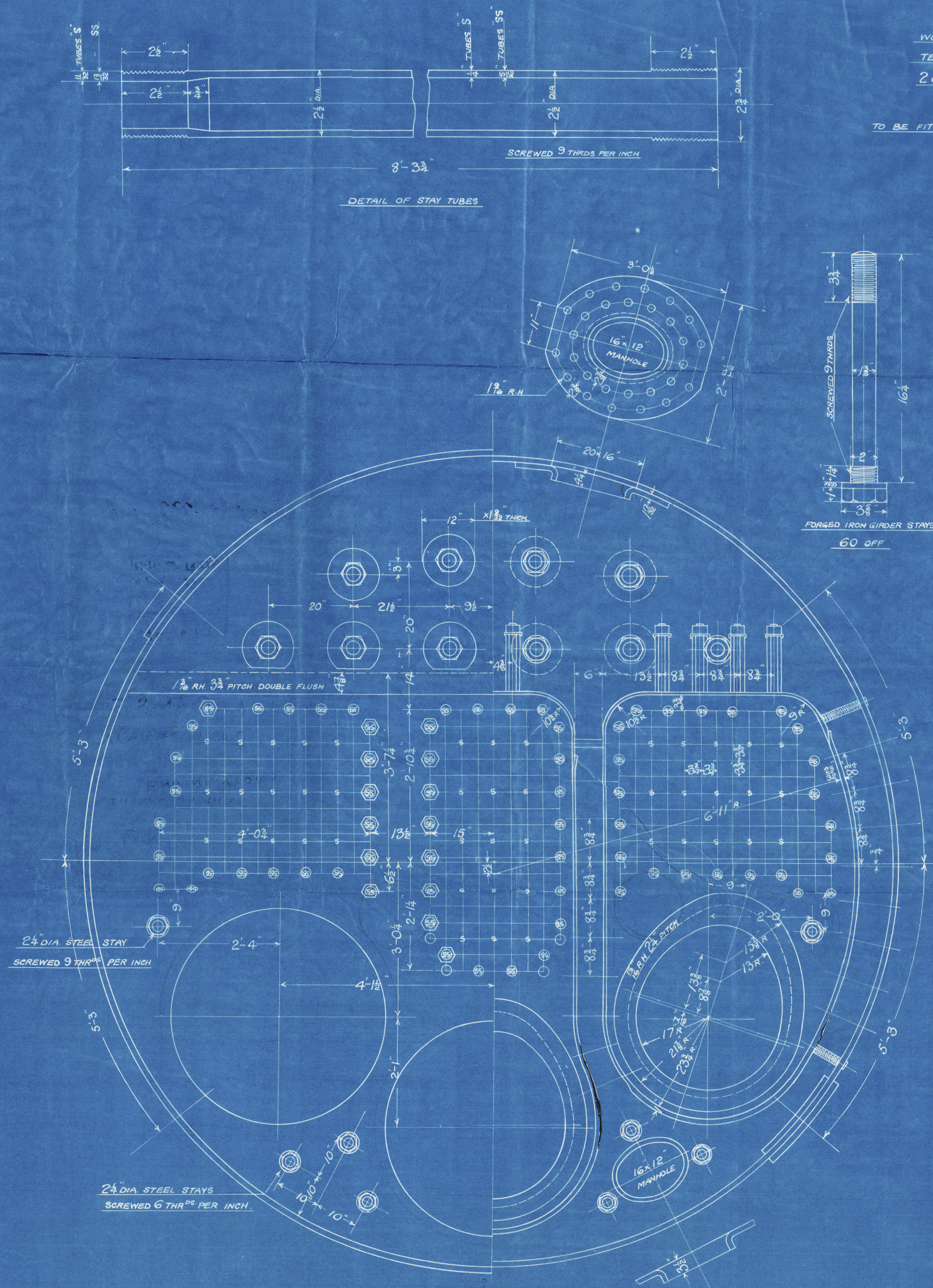
BOILER PARTICULARS

	1 BOILER	2 BOILERS
HEATING SURFACE OF TUBES	2315 ϕ	4630 ϕ
" " " FURNACES	168 "	336 "
" " " COMB CHMBS	250 "	500 "
" " " B.T.P.	46 "	92 "
" " " F.T.P.	36 "	72 "
TOTAL	2815 ϕ	5630 ϕ
GRATE SURFACE (5'-6" BARS)	63.4 ϕ	126.8 ϕ
RATIO $\frac{H.S.}{G.S.}$	4.4	4.4

SCREWED STAYS

MARK	DIA	THREAD	EFF AREA
○	1 3/4"	9	2.030"
⊙	2"	9	2.710"
⊗	2 1/4"	9	3.490"

ALL SCREWED STAYS NUTTED AT EACH END EXCEPT AT SHELL



N^o 977.

CENTRAL MARINE ENGINE WORKS,
WEST HARTLEPOOL.

